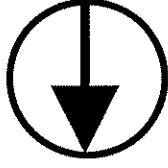


Date : 11/7/97AM 11/6/97PM

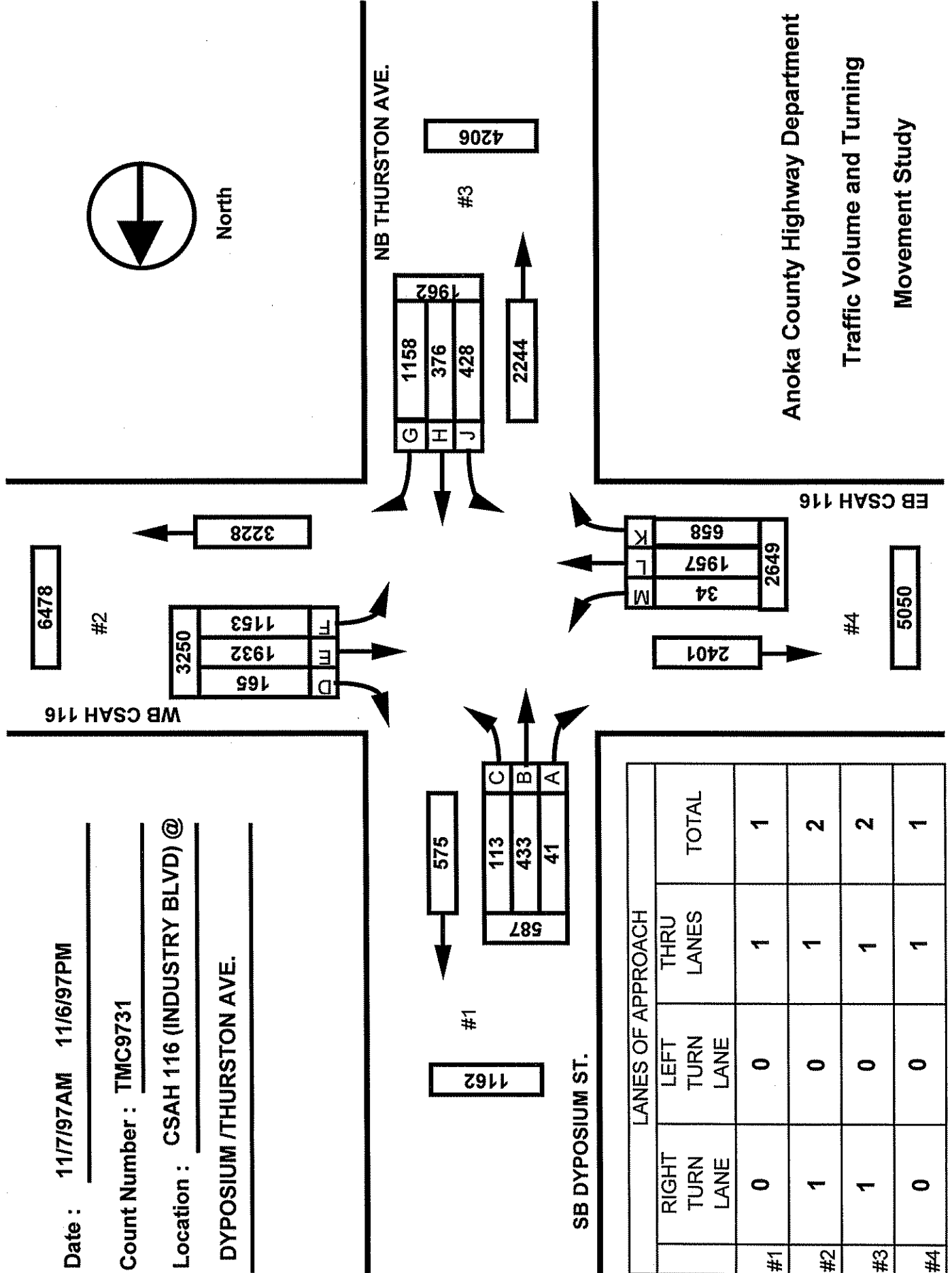
Count Number : TMC9731

Location : CSAH 116 (INDUSTRY BLVD) @

DYPOSIUM /THURSTON AVE.



North



	LANES OF APPROACH			TOTAL
	RIGHT TURN LANE	LEFT TURN LANE	THRU LANES	
#1	0	0	1	1
#2	1	0	1	2
#3	1	0	1	2
#4	0	0	1	1

Anoka County Highway Department
 Traffic Volume and Turning
 Movement Study

6478

#2

3250	1153	F
1932	165	F
		D

3228

NB THURSTON AVE.

1158	G
376	H
428	J

4206

#3

2244

658	K
1957	L
34	M
2649	

EB CSAH 116

2401

#4

5050

575

#1

1162

587	C
433	B
41	A

SB DYPOSIUM ST.

Weather :
 Counted by: RANDY AND JOSIE
 Board # :
 Number :

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 Horsham, PA.

Study Name: TMC9731
 Site Code : 97310102
 Start Date: 11/07/97
 Page : 1

Vehicle group 1

Start Time	DYPOSIUM ST. Southbound				CSAH 116 (BUNKER LAKE) Westbound				THURSTON AVE. Northbound				CSAH 116 (BUNKER LAKE) Eastbound				Intvl	Exclu	Inclu
	Left	Thru	Right	Other	Left	Thru	Right	Other	Left	Thru	Right	Other	Left	Thru	Right	Other			
11/07/97																			
06:00	1	14	0	0	12	26	0	2	5	2	3	1	1	20	17	4	108	7	101
06:15	1	19	0	0	27	38	0	3	4	0	8	2	0	20	38	17	177	22	155
06:30	3	34	0	0	54	52	2	4	3	1	10	3	0	46	23	5	240	12	228
06:45	3	15	2	2	95	79	2	6	3	3	15	3	1	56	30	10	325	21	304
Hour	8	82	2	2	188	195	4	15	15	6	36	9	2	142	108	36	850	62	788
07:00	5	26	3	0	29	37	1	5	1	0	11	1	0	87	22	8	236	14	222
07:15	1	12	0	0	54	34	5	4	2	2	11	1	0	62	28	9	225	14	211
07:30	6	22	1	1	57	54	3	5	3	0	7	1	0	41	32	11	244	18	226
07:45	1	19	1	0	59	56	1	1	4	9	13	5	0	56	42	17	284	23	261
Hour	13	79	5	1	199	181	10	15	10	11	42	8	0	246	124	45	989	69	920
08:00	4	11	0	0	26	37	3	3	2	2	8	1	1	34	10	6	148	10	138
08:15	4	8	0	0	29	37	2	3	3	4	16	1	0	27	7	4	145	8	137
08:30	5	10	3	2	21	40	3	10	5	3	10	2	0	34	11	6	165	20	145
08:45	6	9	0	0	32	29	4	11	4	6	9	3	0	36	10	5	164	19	145
Hour	19	38	3	2	108	143	12	27	14	15	43	7	1	131	38	21	622	57	565
09:00	4	13	1	2	21	27	5	4	0	4	13	0	1	36	8	9	148	15	133
09:15	4	2	0	0	18	31	2	10	3	4	9	0	0	29	7	4	123	14	109
09:30	0	11	0	0	26	25	3	6	4	8	15	2	0	32	11	6	149	14	135
09:45	2	9	0	1	27	32	4	10	6	5	15	3	1	21	11	3	150	17	133
Hour	10	35	1	3	92	115	14	30	13	21	52	5	2	118	37	22	570	60	510
10:00	1	5	0	0	16	27	0	6	3	5	20	0	1	32	4	7	127	13	114
10:15	2	6	0	0	13	17	2	3	6	2	15	4	1	25	12	8	116	15	101
10:30	2	4	0	0	14	24	2	3	4	4	21	3	0	32	7	2	122	8	114
10:45	0	6	1	0	18	35	1	6	3	6	16	0	0	26	8	5	131	11	120
Hour	5	21	1	0	61	103	5	18	16	17	72	7	2	115	31	22	496	47	449
11:00	4	5	0	0	21	32	2	6	11	5	27	1	1	34	15	6	170	13	157
11:15	1	5	2	1	17	39	0	9	4	3	21	0	1	30	4	5	142	15	127
11:30	4	7	0	0	12	34	2	6	7	11	31	2	0	38	12	4	170	12	158
11:45	1	7	1	0	25	32	5	8	7	14	27	3	0	25	9	6	170	17	153
Hour	10	24	3	1	75	137	9	29	29	33	106	6	2	127	40	21	652	57	595
12:00	0	10	1	0	26	35	3	6	7	8	40	2	0	42	15	2	197	10	187
12:15	1	7	2	1	23	37	2	9	9	5	25	3	2	26	10	4	166	17	149
12:30	3	3	1	2	19	37	2	8	10	5	20	3	0	29	19	4	165	17	148
12:45	3	11	2	2	36	36	5	6	12	7	21	4	1	31	15	4	196	16	180
Hour	7	31	6	5	104	145	12	29	38	25	106	12	3	128	59	14	724	60	664

Weather :
 Counted by: RANDY AND JOSIE
 Board # :
 Lher :

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 Horsham, PA.

Study Name: TMC9731
 Site Code : 97310102
 Start Date: 11/07/97
 Page : 2

Vehicle group 1

Start Time	DYPOSIUM ST. Southbound				CSAH 116 (BUNKER LAKE Westbound				THURSTON AVE. Northbound				CSAH 116 (BUNKER LAKE Eastbound				Intvl	Exclu	Inclu
	Left	Thru	Right	Other	Left	Thru	Right	Other	Left	Thru	Right	Other	Left	Thru	Right	Other			
13:00	0	5	0	0	19	35	1	4	10	6	13	2	0	38	11	5	149	11	138
13:15	1	4	0	0	9	25	0	3	6	2	16	1	0	29	11	4	111	8	103
13:30	1	3	0	0	15	36	4	11	6	4	22	0	0	38	8	4	152	15	137
13:45	3	4	1	0	15	28	1	5	8	6	17	8	0	26	11	3	136	16	120
Hour	5	16	1	0	58	124	6	23	30	18	68	11	0	131	41	16	548	50	498
14:00	1	6	2	0	19	36	4	4	5	9	25	4	0	27	6	3	151	11	140
14:15	0	8	0	0	18	68	7	11	9	10	27	4	0	27	11	4	204	19	185
14:30	4	3	2	2	23	43	4	8	13	5	21	2	0	35	9	5	179	17	162
14:45	0	8	1	2	20	39	0	5	14	8	26	3	0	39	3	11	179	21	158
Hour	5	25	5	4	80	186	15	28	41	32	99	13	0	128	29	23	713	68	645
15:00	3	3	2	1	18	50	9	6	16	14	49	0	2	33	11	3	220	10	210
15:15	2	2	1	1	16	46	5	3	11	11	38	8	0	38	13	4	199	16	183
15:30	0	9	1	2	14	52	3	7	14	20	58	12	2	87	20	9	310	30	280
15:45	3	5	2	0	15	45	8	3	18	16	37	0	1	56	18	5	232	8	224
Hour	8	19	6	4	63	193	25	19	59	61	182	20	5	214	62	21	961	64	897
16:00	1	5	1	0	15	60	6	11	18	25	67	3	1	71	12	2	298	16	282
16:15	0	3	1	0	12	40	3	3	18	9	26	0	0	51	16	4	186	7	179
16:30	3	8	2	0	16	58	10	7	24	20	61	3	4	71	11	0	298	10	288
16:45	5	15	2	1	22	48	5	6	20	19	36	2	5	71	8	3	268	12	256
Hour	9	31	6	1	65	206	24	27	80	73	190	8	10	264	47	9	1050	45	1005
17:00	5	7	1	0	13	55	8	0	26	21	64	3	2	60	8	1	274	4	270
17:15	2	8	0	0	16	52	6	4	20	14	36	0	2	48	11	0	219	4	215
17:30	3	10	1	0	16	54	6	1	15	18	26	1	2	54	13	0	220	2	218
17:45	4	7	0	0	15	43	9	3	22	11	36	1	1	51	10	4	217	8	209
Hour	14	32	2	0	60	204	29	8	83	64	162	5	7	213	42	5	930	18	912
Total	113	433	41	23	1153	1932	165	268	428	376	1158	111	34	1957	658	255	9105	657	8448
% Apr.	18.5	70.9	6.7	3.7	32.7	54.9	4.6	7.6	20.6	18.1	55.8	5.3	1.1	67.3	22.6	8.7	-	-	-
% Int.	1.2	4.7	0.4	0.2	12.6	21.2	1.8	2.9	4.7	4.1	12.7	1.2	0.3	21.4	7.2	2.8	-	-	-

or Street Approaches:

astbound:

CSAH 116 (INDUSTRY AVE)

Data File: C:\APPS\PETRA2\DATAFILE\TMC9731.PDF
 Count Type: IMC. Channel: 0. Count Date: 11/ 7/97
 Number of Lanes: 1
 Approach Speed: 50
 Total Approach Traffic: 2649

Westbound:

CSAH 116 (INDUSTRY AVE)

Data File: C:\APPS\PETRA2\DATAFILE\TMC9731.PDF
 Count Type: IMC. Channel: 0. Count Date: 11/ 7/97
 Number of Lanes: 2
 Approach Speed: 50
 Total Approach Traffic: 3250

Minor Street Approaches:

Northbound:

THURSTON AVE.

Data File: C:\APPS\PETRA2\DATAFILE\TMC9731.PDF
 Count Type: IMC. Channel: 0. Count Date: 11/ 7/97
 Number of Lanes: 1
 Approach Speed: 0
 Total Approach Traffic: 1962

Southbound:

DYPOSIUM ST.

Data File: C:\APPS\PETRA2\DATAFILE\TMC9731.PDF
 Count Type: IMC. Channel: 0. Count Date: 11/ 7/97
 Number of Lanes: 1
 Approach Speed: 0
 Total Approach Traffic: 587

Analysis of 8-Hour Volume Warrants (Criteria refers to high volume side street for that hour):

Hour	Main	Side	Warrant 1	Warrant 2	Warrant 8
Begin	(Total)	Vol. Dir. Rank	Meets? Criteria	Meets? Criteria	Meets? Criteria
0	0	0 S 13	105	52	84
1	0	0 S 14	105	52	84
2	0	0 S 15	105	52	84
3	0	0 S 16	105	52	84
4	0	0 S 17	105	52	84
5	0	0 S 18	105	52	84
6	639	92 S 10	MAIN 105	--BOTH-- 52	--BOTH-- 84
7	760	97 S 9	MAIN 105	--BOTH-- 52	--BOTH-- 84
8	433	72 N 12	MAIN 105	SIDE 52	SIDE 84
9	378	86 N 11	105	SIDE 52	SIDE 84
10	317	105 N 8	SIDE 105	SIDE 52	SIDE 84
11	390	168 N 6	SIDE 105	SIDE 52	SIDE 84
12	451	169 N 5	--BOTH-- 105	SIDE 52	SIDE 84
13	360	116 N 7	SIDE 105	SIDE 52	SIDE 84
14	438	172 N 4	--BOTH-- 105	SIDE 52	SIDE 84
15	562	302 N 3	--BOTH-- 105	SIDE 52	--BOTH-- 84
16	616	343 N 1	--BOTH-- 105	SIDE 52	--BOTH-- 84
17	555	309 N 2	--BOTH-- 105	SIDE 52	--BOTH-- 84
18	0	0 S 19	105	52	84
19	0	0 S 20	105	52	84
20	0	0 S 21	105	52	84
21	0	0 S 22	105	52	84
22	0	0 S 23	105	52	84
23	0	0 S 24	105	52	84

Warrant Summary:

Rural values apply.

Warrant 1 - Minimum Vehicular Volumes

NOT SATISFIED. Required values reached for 5 hours. Criteria--Main St.: 420; Side St.: See Volume Summary.

Warrant 2 - Interruption of Continuous Traffic

NOT SATISFIED. Required values reached for 2 hours. Criteria--Main St.: 630; Side St.: See Volume Summary.

Warrant 3 - Minimum Pedestrian Volumes

NOT SATISFIED. Ped volumes too low. Criteria--190 Peds in peak hour, 100 peds in 4th high hour.

Warrant 4 - School Crossing

NOT APPLICABLE. Gap data has not been defined.

Warrant 5 - Progressive Movement

NOT SATISFIED. Adjacent signals closer than 1000 feet and/or not part of coordinated system.

Warrant 6 - Accident Experience

NOT SATISFIED. 0 correctable accidents is fewer than required 5.

Correctable Accidents: 0; Right Angle Accidents: 0; Left Turn Accidents: 0; Other Accidents: 0.

Warrant 7 - Systems Warrant

NOT SATISFIED. At least one street has no major approaches. Peak hour total entering volume: 1005.

- Approaches which are part of the principal through traffic roadway network.
- Approaches which include rural or suburban highways outside, entering or traversing a city.
- Approaches which appear as a major route in an official transportation plan.

Warrant 8 - Combination of Warrants

NOT SATISFIED. Required values reached for 5 hours. Criteria--Main: 504; Side: See Volume Summary.

Warrant 9 - Four Hour Volumes

SATISFIED for 4 hours.

Warrant 10 - Peak Hour Delay

NOT SATISFIED. Peak hour (1600 hours) volume not adequate.

Criteria--Main St.: 800 (4 approaches), 650 (3 approaches); Side St.: 100.

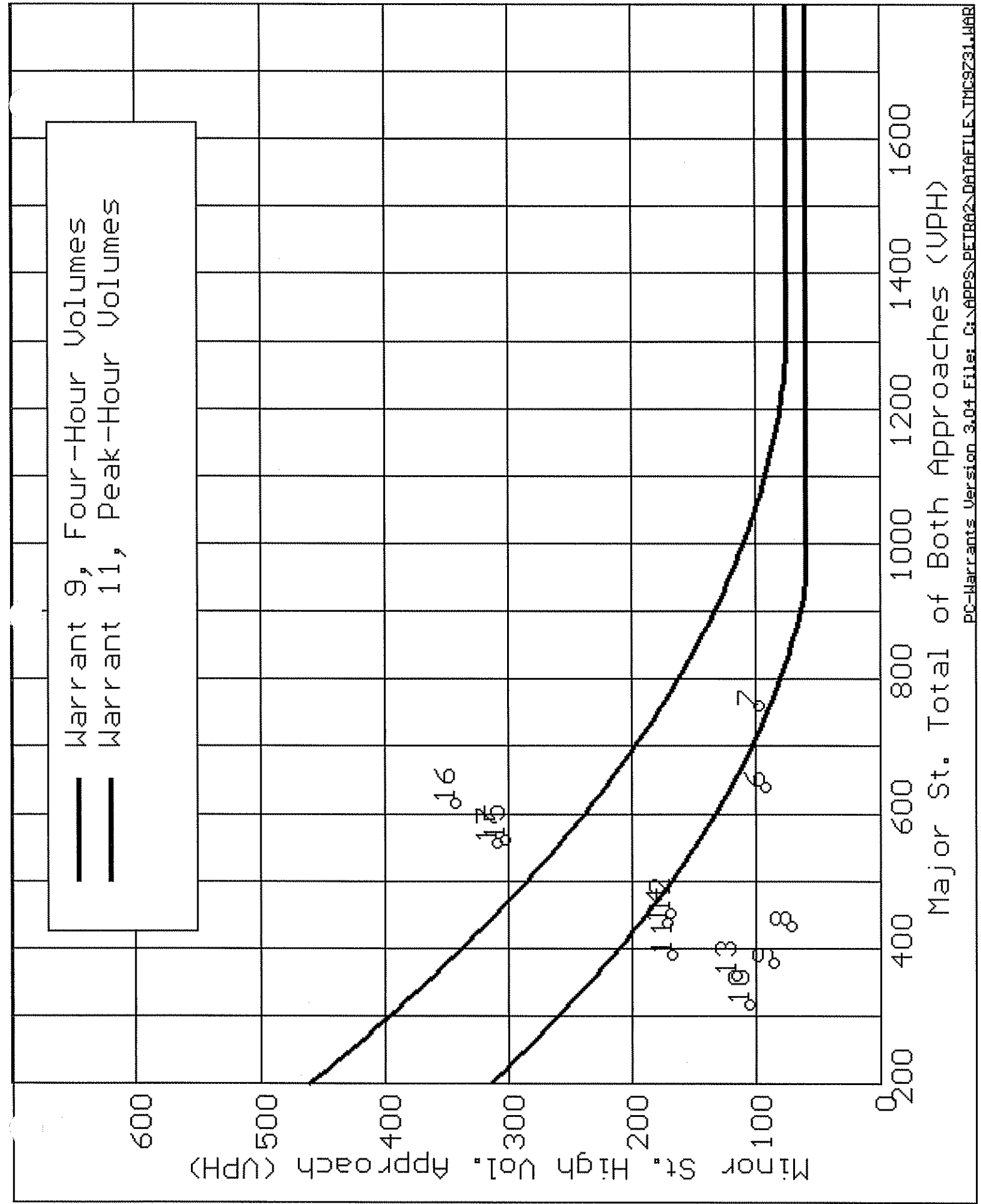
Warrant 11 - Peak Hour Volume

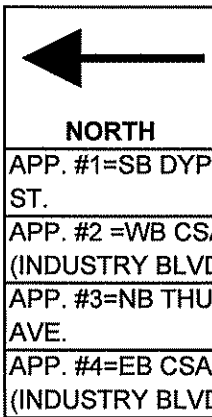
SATISFIED for 3 hours.

Minor St. High Vol. Approach (UPH)

Warrant 9, Four-Hour Volumes
Warrant 11, Peak-Hour Volumes

Major St. Total of Both Approaches (UPH)



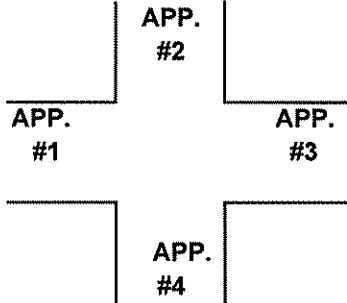


COUNT LOCATION:

CSAH 116 (INDUSTRY BLVD) @
DYPOSIUM/THURSTON AVE.

DATE:

11/7/97



- HEAVY VEHICLE- ANY VEHICLE HAVING MORE THAN FOUR TIRES TOUCHING THE PAVEMENT
- A. TRUCKS- A HEAVY VEHICLE INVOLVED PRIMARILY IN THE TRANSPORT OF GOODS OR IN THE DELIVERY OF A SERVICE.
 - B. RV- A HEAVY VEHICLE OPERATED BY A PRIVATE MOTORIST AND INVOLVED IN THE TRANSPORT OF RECREATIONAL EQUIPMENT OR FACILITIES.
 - C. BUSES- A HEAVY VEHICLE INVOLVED IN THE TRANSPORTATION OF GROUPS OF PEOPLE.

TIME	PEDESTRIANS					HEAVY VEHICLES		
	APP. #1	APP. #2	APP. #3	APP. #4	15 MIN TOT	TRUCKS	RV	BUS
6:00-6:15AM						7		
6:15-6:30						22		1
6:30-6:45						9		3
6:45-7:00						13	1	7
HOURLY TOTAL						HOURLY TOTAL		63
7:00-7:15						9		5
7:15-7:30						12		2
7:30-7:45						15	1	3
7:45-8:00						19		5
HOURLY TOTAL						HOURLY TOTAL		71
8:00-8:15						8		2
8:15-8:30						6		3
8:30-8:45						11	1	5
8:45-9:00						16	1	1
HOURLY TOTAL						HOURLY TOTAL		54
9:00-9:15						11		4
9:15-9:30						13		1
9:30-9:45						14		
9:45-10:00						17		
HOURLY TOTAL						HOURLY TOTAL		60
10:00-10:15			1		1	15		
10:15-10:30						15		1
10:30-10:45						7		1
10:45-11:00						10		1
HOURLY TOTAL					1	HOURLY TOTAL		50
11:00-11:15						11		3
11:15-11:30						14		1
11:30-11:45						10		1
11:45-12:00						16		1
HOURLY TOTAL						HOURLY TOTAL		57
12:00-12:15	1				1	9	2	1
12:15-12:30						11	1	4
12:30-12:45						11		4
12:45-1:00						15		
HOURLY TOTAL					1	HOURLY TOTAL		58
1:00-1:15						10		1
1:15-1:30						8		
1:30-1:45						15		
1:45-2:00				1	1	10		6
HOURLY TOTAL					1	HOURLY TOTAL		50



COUNT LOCATION:

CSAH 116 (INDUSTRY BLVD) @
DYPOSIUM/THURSTON AVE.

DATE:

11/6/97

NORTH

APP. #1=SB DYPOSIUM ST.
APP. #2 =WB CSAH 116 (INDUSTRY BLVD)
APP. #3=NB THURSTON AVE.
APP. #4=EB CSAH 1116 (INDUSTRY BLVD)

APP. #2

APP. #1

APP. #3

APP. #4

HEAVY VEHICLE- ANY VEHICLE HAVING MORE THAN FOUR TIRES TOUCHING THE PAVEMENT
A. TRUCKS- A HEAVY VEHICLE INVOLVED PRIMARILY IN THE TRANSPORT OF GOODS OR IN THE DELIVERY OF A SERVICE.
B. RV- A HEAVY VEHICLE OPERATED BY A PRIVATE MOTORIST AND INVOLVED IN THE TRANSPORT OF RECREATIONAL EQUIPMENT OR FACILITIES.
C. BUSES- A HEAVY VEHICLE INVOLVED IN THE TRANSPORTATION OF GROUPS OF PEOPLE.

TIME	PEDESTRIANS					HEAVY VEHICLES		
	APP. #1	APP. #2	APP. #3	APP. #4	15 MIN TOT	TRUCKS	RV	BUS
2:00-2:15PM						11		
2:15-2:30						14		5
2:30-2:45						16		1
2:45-3:00						16		4
HOURLY TOTAL						HOURLY TOTAL		67
3:00-3:15						7		2
3:15-3:30						10	2	3
3:30-3:45						14		6
3:45-4:00						9		2
HOURLY TOTAL						HOURLY TOTAL		55
4:00-4:15						13		3
4:15-4:30						7		
4:30-4:45						12		2
4:45-5:00						6		2
HOURLY TOTAL						HOURLY TOTAL		45
5:00-5:15						1		
5:15-5:30						3		1
5:30-5:45						2		
5:45-6:00						8		
HOURLY TOTAL						HOURLY TOTAL		15
6:00-6:15								
6:15-6:30								
6:30-6:45								
6:45-7:00								
HOURLY TOTAL						HOURLY TOTAL		
7:00-7:15								
7:15-7:30								
7:30-7:45								
7:45-8:00								
HOURLY TOTAL						HOURLY TOTAL		
8:00-8:15								
8:15-8:30								
8:30-8:45								
8:45-9:00								
HOURLY TOTAL						HOURLY TOTAL		
9:00-9:15								
9:15-9:30								
9:30-9:45								
9:45-10:00								
HOURLY TOTAL						HOURLY TOTAL		